

Day : Wednesday

Date: 11/15/2006

Time: 10:06:40

**PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = TAUZIN

First Name = JEROME

Application#	Patent#	Status	Date Filed	Title	Inventor Name
10519164	Not Issued	71	08/30/2005	Use of at least one \$g(a)62 casein peptide with angiotensin i converting enzyme inhibiting activity for preparing medicines, food products and food complements	TAUZIN, JEROME

Inventor Search Completed: No Records to Display.

Search Another: Inventor	Last Name	First Name	<input type="button" value="Search"/>
	<input type="text" value="Tauzin"/>	<input type="text" value="jerome"/>	

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Day : Wednesday

Date: 11/15/2006

Time: 10:07:38

 **PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = MICLO

First Name = LAURENT

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08562979	5846939	150	11/27/1995	THE USE OF A DECAPEPTIDE WITH BENZODIAZEPINE-TYPE ACTIVITY FOR PREPARING MEDICINES AND FOOD SUPPLEMENTS	MICLO, LAURENT
10519164	Not Issued	71	08/30/2005	Use of at least one \$g(a)62 casein peptide with angiotensin i converting enzyme inhibiting activity for preparing medicines, food products and food complements	MICLO, LAURENT

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name	First Name	
<input type="text" value="miclo"/>	<input type="text" value="laurent"/>	<input type="button" value="Search"/>

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Day : Wednesday

Date: 11/15/2006

Time: 10:08:20

**PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = LEFRANC

First Name = CATHERINE

Application#	Patent#	Status	Date Filed	Title	Inventor Name
<u>10519164</u>	Not Issued	71	08/30/2005	Use of at least one \$g(a)62 casein peptide with angiotensin i converting enzyme inhibiting activity for preparing medicines, food products and food complements	LEFRANC, CATHERINE
<u>08588984</u>	Not Issued	168	01/19/1996	HYPOALLERGENIC SEROCOLOSTRAL FRACTION WITH HIGH ANTIBODY ACTIVITY, ITS USE, AND A PROCESS FOR THE PRODUCTION OF SUCH A FRACTION	LEFRANC-MILLOT, CATHERINE

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name	First Name	Search
<input type="text" value="lefranc"/>	<input type="text" value="catherine"/>	<input type="button" value="Search"/>

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Day : Wednesday

Date: 11/15/2006

Time: 10:08:48

 **PALM INTRANET****Inventor Name Search Result**

Your Search was:

Last Name = BOUDIER

First Name = JEAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08562979	5846939	150	11/27/1995	THE USE OF A DECAPEPTIDE WITH BENZODIAZEPINE-TYPE ACTIVITY FOR PREPARING MEDICINES AND FOOD SUPPLEMENTS	BOUDIER, JEAN-FRANCOIS
10519164	Not Issued	71	08/30/2005	Use of at least one \$g(a)62 casein peptide with angiotensin i converting enzyme inhibiting activity for preparing medicines, food products and food complements	BOUDIER, JEAN-FRANCOIS

Inventor Search Completed: No Records to Display.

Search Another: Inventor Last Name First Name

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Day : Wednesday

Date: 11/15/2006

Time: 10:09:26

 PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = GAILLARD

First Name = JEAN

Application#	Patent#	Status	Date Filed	Title	Inventor Name
06058578	4320362	150	07/18/1979	FILTER FOR ANALOG SIGNALS	GAILLARD, JEAN
06071503	4270929	150	08/31/1979	PROCESS FOR PRODUCING GASOLINE OF HIGH OCTANE NUMBER,IN PARTICULAR LEAD-FREE GASOLINE	GAILLARD, JEAN
06075486	4268701	150	09/14/1979	PROCESS FOR PRODUCING HIGH OCTANE GASOLINE AND PARTICULARLY LEAD-FREE GASOLINE	GAILLARD, JEAN
06102488	4283305	150	12/11/1979	NEW CATALYST COMPOSITION AND ITS USE FOR OLIGOMERIZING OLEFINS	GAILLARD, JEAN
06214603	4383228	150	12/09/1980	FILTER DEVICE COMPRISING SWITCHED-CAPACITANCE INTEGRATING NETWORKS	GAILLARD, JEAN
06227309	4387262	150	01/22/1981	PROCESS FOR OLIGOMERIZING OLEFINS	GAILLARD, JEAN
06261818	4390431	250	05/08/1981	PROCESS FOR TREATING AQUEOUS STREAMS CONTAINING ALUMINUM	GAILLARD, JEAN
06261819	4362650	150	05/08/1981	CATALYST AND PROCESS FOR OLEFIN OLIGOMERIZATION	GAILLARD, JEAN
06370237	4401559	150	04/21/1982	PROCESS FOR REMOVING HALOGENATED IMPURITIES FROM OLEFIN OLIGOMERS	GAILLARD, JEAN
06370322	4404415	150	04/21/1982	PROCESS FOR PRODUCING NONENES OR FOR SIMULTANEOUSLY	GAILLARD, JEAN

				PRODUCING NONENES AND DODECENES FROM PROPENE	
<u>06371341</u>	<u>4474647</u>	150	04/23/1982	PROCESS FOR PURIFYING A C4 AND/OR C5 HYDROCARBON CUT CONTAINING WATER AND DIMETHYL ETHER AS IMPURITIES	GAILLARD, JEAN
<u>06373182</u>	<u>4417091</u>	150	04/29/1982	PROCESS FOR REMOVING FLUORINE FROM OLEFIN OLIGOMERS	GAILLARD, JEAN
<u>07248516</u>	Not Issued	161	09/23/1988	POLYIMIDE COMPOSITIONS ETCHABLE IN A BASIC MEDIUM	GAILLARD, JEAN
<u>07701071</u>	<u>5165359</u>	150	05/16/1991	PRESSURE TIGHT HULL CONVERTIBLE SUBMARINE	GAILLARD, JEAN
<u>08252993</u>	<u>5472457</u>	150	06/02/1994	GASOLINE ADDITIVES CONTAINING ALKOXYLATED IMIDAZO-OXAZOLES	GAILLARD, JEAN
<u>08454372</u>	Not Issued	163	06/16/1995	PETROLEUM MIDDLE DISTILLATE COMPOSITION CONTAINING A SUBSTANCE FOR LIMITING THE PARAFFIN SEDIMENTATION RATE	GAILLARD, JEAN
<u>08639610</u>	<u>5728912</u>	150	04/29/1996	BUTENE-1 PRODUCTION BY DIMERIZATION OF ETHYLENE COMPRISING AN IMPROVED SPENT CATALYST REMOVAL SECTION	GAILLARD, JEAN
<u>09963040</u>	<u>6860908</u>	150	09/26/2001	PETROLEUM MIDDLE DISTILLATE COMPOSITION CONTAINING A SUBSTANCE FOR LIMITING THE PARAFFIN SEDIMENTATION RATE	GAILLARD, JEAN
<u>08149405</u>	Not Issued	168	11/09/1993	METHOD FOR RECOVERY OF ALKALI METAL OR ALKALINE-EARTH METAL TEREPHTHALATE AND OF ALKYLENE GLYCOL FROM POLYETHYLENE TEREPHTHALATES	GAILLARD, JEAN-BERNARD
<u>08367859</u>	<u>5545746</u>	150	01/03/1995	METHOD FOR RECOVERY OF	GAILLARD, JEAN-

				ALKALI METAL OR ALKALINE-EARTH METAL TEREPHTHALATE AND OF ALKYLENE GLYCOL FROM POLYETHYLENE TEREPHTHALATES	BERNARD
<u>07985937</u>	<u>5292139</u>	150	12/04/1992	CLAMPING CHUCK FOR A MACHINE TOOL, ESPECIALLY AN AUTOMATIC MACHINE TOOL, AND A METHOD FOR PREPARING IT	GAILLARD, JEAN- CHRISTOPHE
<u>06865786</u>	Not Issued	161	05/22/1986	GAS SPRING WITH PERMANENT LUBRICATION	GAILLARD, JEAN- CLAUDE
<u>07171339</u>	<u>4847430</u>	150	03/21/1988	PROCESS FOR MANUFACTURING A TERTIARY ALKYL ETHER BY REACTIVE DISTILLATION	GAILLARD, JEAN- FERDINAND
<u>07171340</u>	<u>4847431</u>	150	03/21/1988	PROCESS FOR MANUFACTURING A TERTIARY ALKYL ETHER BY REACTIVE DISTILLATION	GAILLARD, JEAN- FERDINAND
<u>07356087</u>	<u>5026459</u>	150	05/24/1989	AN APPARATUS FOR REACTIVE DISTILLATION	GAILLARD, JEAN- FERDINAND
<u>07356090</u>	<u>5013407</u>	150	05/24/1989	AN APPARATUS FOR REACTIVE DISTILLATION	GAILLARD, JEAN- FERDINAND
<u>10519164</u>	Not Issued	71	08/30/2005	Use of at least one \$g(a)62\$ casein peptide with angiotensin i converting enzyme inhibiting activity for preparing medicines, food products and food complements	GAILLARD, JEAN- LUC
<u>07975930</u>	<u>5294788</u>	150	04/16/1993	LOW LIGHT LEVEL, HIGH RESOLUTION IMAGER USING PHOSPHORSCREEN PROVIDED WITH A METAL LAYER FOR CONTROLLING INTEGRATION CYCLE OF PHOTOSENSITIVE MATRIX ARRAY	GAILLARD, JEAN- MARC
<u>06520480</u>	Not Issued	166	08/04/1983	PROCESS FOR PRODUCING GRANULATES FROM STEEL PLANT SLAG	GAILLARD, JEAN- MARIE
<u>06788519</u>	Not Issued	161	10/17/1985	PROCESS FOR PRODUCING GRANULATES FROM STEEL	GAILLARD, JEAN- MARIE

				PLANT SLAG	
<u>09555875</u>	Not Issued	161	08/23/2000	Method and device for marking objects with sintered mineral powders	GAILLARD, JEAN-MARIE
<u>09622639</u>	<u>6767499</u>	150	10/12/2000	FAST PROTOTYPING METHOD BY LASER SINTERING OF POWDER	GAILLARD, JEAN-MARIE
<u>09890764</u>	<u>6551473</u>	150	10/24/2001	ELECTROLYTIC CELL ARRANGEMENT FOR PRODUCTION OF ALUMINIUM	GAILLARD, JEAN-MARIE
<u>10149126</u>	<u>7048530</u>	150	10/18/2002	DEVICE FOR APPLYING THIN LAYERS OF A POWDER OR PULVERULENT MATERIAL AND CORRESPONDING METHOD	GAILLARD, JEAN-MARIE
<u>10657679</u>	Not Issued	41	09/08/2003	Method for manufacturing building elements	GAILLARD, JEAN-MARIE
<u>10663594</u>	<u>6872879</u>	150	09/16/2003	THERMOELECTRIC GENERATOR	GAILLARD, JEAN-MARIE
<u>09185615</u>	<u>6848951</u>	150	11/04/1998	INTERFACE DEVICE BETWEEN PIECES OF EQUIPMENT OF A PLANT	GAILLARD, JEAN-PAUL
<u>08815741</u>	<u>6081585</u>	150	03/12/1997	INTERACTIVE CONTROL ELECTRONIC DIRECTORY	GAILLARD, JEAN-PIERRE

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name	First Name	
<input type="text" value="gaillard"/>	<input type="text" value="jean"/>	<input type="button" value="Search"/>

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NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
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NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
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with preparation role

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SINCE FILE	TOTAL
ENTRY	SESSION
30.21	30.42

FULL ESTIMATED COST

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13 L1
5500101 PATENT/DT
L2 4 L1 AND PATENT/DT

=> D L2 1-4 ibib abs

L2 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:493749 CAPLUS
DOCUMENT NUMBER: 143:40600
TITLE: Peptide derivatization for enhancing protein
identification by mass spectrometry
INVENTOR(S): Reilly, James P.; Beardsley, Richard L.
PATENT ASSIGNEE(S): Indiana University Research and Technology
Corporation, USA
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005052563	A1	20050609	WO 2004-US38932	20041119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-523643P P 20031120
AB One aspect of the present invention is directed to a dual labeling strategy that enhances the mass spectrometry anal. of peptides. In one embodiment a de novo sequencing method is provided that utilizes both guanidination of lysine residues in conjunction with amidination of the N-termini of peptides to be analyzed by mass spectrometry. This approach facilitates identification of N- and C-terminal fragment ions.
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:546918 CAPLUS
DOCUMENT NUMBER: 141:83633
TITLE: Rice nucleic acid molecules and encoded proteins and their uses for plant improvement
INVENTOR(S): La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 27
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2004123343	A1	20040624	US 2003-437963	20030514
US 2004123343	A1	20040624	US 2003-437963	20030514
PRIORITY APPLN. INFO.:			US 2000-197872P	P 20000419
			US 2001-837604	A2 20010418
			US 2003-437963	A 20030514

AB The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice (*Oryza sativa*). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.]

L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:5123 CAPLUS
DOCUMENT NUMBER: 140:71022
TITLE: Casein α S2 peptides with angiotensin
I-converting enzyme (ACE)-inhibiting activity for the
preparation of medicaments and foodstuffs for the
treatment of hypertension
INVENTOR(S): Tauzin, Jerome; Miclo, Laurent; Lefranc, Catherine;
Boudier, Jean-Francois; Gaillard, Jean-Luc
PATENT ASSIGNEE(S): Ingredia, Fr.
SOURCE: Eur. Pat. Appl., 19 pp:
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374885	A1	20040102	EP 2003-370025	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841473	A1	20040102	FR 2002-8036	20020627
FR 2841473	B1	20040917		
CA 2490282	AA	20040108	CA 2003-2490282	20030624
WO 2004002509	A2	20040108	WO 2003-FR1945	20030624
WO 2004002509	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003255691	A1	20040119	AU 2003-255691	20030624
BR 2003012214	A	20050412	BR 2003-12214	20030624
JP 2005530851	T2	20051013	JP 2004-516859	20030624
US 2006234942	A1	20061019	US 2005-519164	20050830
PRIORITY APPLN. INFO.:			FR 2002-8036	A 20020627
			WO 2003-FR1945	W 20030624

AB The invention discloses peptides derived from casein α S2 with ACE-inhibiting activity for the prevention and treatment of hypertension. The peptides may be included in pharmaceutical compns. and foodstuffs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:452327 CAPLUS
DOCUMENT NUMBER: 125:123676
TITLE: Purification of antibacterial peptides from bovine milk
INVENTOR(S): Zucht, Hans-Dieter; Forssmann, Wolf-Georg; Raida, Manfred; Adermann, Knut
PATENT ASSIGNEE(S): Germany
SOURCE: Ger. Offen., 17 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4444753	A1	19960620	DE 1994-4444753	19941215
DE 4444753	C2	19980806		
WO 9735877	A1	19971002	WO 1996-EP1296	19960325
W:	AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KG, KP, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9653342	A1	19971017	AU 1996-53342	19960325
EP 889902	A1	19990113	EP 1996-910013	19960325
EP 889902	B1	20010620		
R:	AT, CH, DE, ES, FR, GB, IT, LI			
JP 2000507941	T2	20000627	JP 1997-533956	19960325
AT 202363	E	20010715	AT 1996-910013	19960325
ES 2159021	T3	20010916	ES 1996-910013	19960325
US 2002025928	A1	20020228	US 1998-155203	19980924
US 6579849	B2	20030617		

PRIORITY APPLN. INFO.: DE 1994-4444753 19941215
WO 1996-EP1296 W 19960325

AB Fragments of α s2-casein, designated as casobiotics, are present in large amts. in bovine milk and show antibacterial activity against Escherichia coli. Thus, milk was acidified, heated, treated with CaCl₂, and centrifuged, and the whey was subjected to cation-exchange chromatog. and 3 cycles of HPLC to isolate α s2-casein(165-203). The structure and biol. activity of this peptide were confirmed by synthesis. A related peptide, α s2-casein(166-203), was also prepared and showed similar biol. activity.

=> file biosis embase medline agricola ps
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
15.21	45.63

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-3.00	-3.00

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FILE 'PS' ENTERED AT 08:42:22 ON 15 NOV 2006

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=> s L1

L3 2 L1

=> d :3 1-2 ibib abs

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=> d L3 1-2 ibib abs

L3 ANSWER 1 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2005:388536 BIOSIS
DOCUMENT NUMBER: PREV200510174584
TITLE: Antistaphylococcal activity of Omani honey in combination with bovine milk.
AUTHOR(S): Al-Jabri, A. A. [Reprint Author]; Al Hosni, S. A.; Nzeako, B.; Nsanze, H.
CORPORATE SOURCE: Sultan Qaboos Univ, Coll Med and Hlth Sci, Dept Microbiol and Immunol, POB 35, Muscat 123, Oman
aaljabri@squ.edu.om
SOURCE: British Journal of Biomedical Science, (2005) Vol. 62, No. 2, pp. 92-93.
ISSN: 0967-4845.
DOCUMENT TYPE: Article
LANGUAGE: English
ENTRY DATE: Entered STN: 28 Sep 2005
Last Updated on STN: 28 Sep 2005

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN
ACCESSION NUMBER: 2003:279824 BIOSIS
DOCUMENT NUMBER: PREV200300279824
TITLE: Biodefense properties of milk: The role of antimicrobial proteins and peptides.
AUTHOR(S): Clare, D. A. [Reprint Author]; Catignani, G. L.; Swaisgood, H. E.
CORPORATE SOURCE: Dept. of Food Science, North Carolina State University, 218-E Schaub Hall, Raleigh, NC, 27695-7624, USA
debra_clare@ncsu.edu
SOURCE: Current Pharmaceutical Design, (2003) Vol. 9, No. 16, pp. 1239-1255. print.
ISSN: 1381-6128 (ISSN print)..
DOCUMENT TYPE: Article
General Review; (Literature Review)
LANGUAGE: English
ENTRY DATE: Entered STN: 11 Jun 2003
Last Updated on STN: 1 Aug 2003

=> File nutraceut scisearch

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
11.69	57.32

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
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L4 0 L1

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.20	65.52
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.00

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=> s ALNEINQFYQK/sqsp
L5 25 ALNEINQFYQK/SQSP

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.97	97.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.00

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FILE COVERS 1907 - 15 Nov 2006 VOL 145 ISS 21
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=> s L5 and patent/dt
11 L5
5500101 PATENT/DT
L6 2 L5 AND PATENT/DT

=> d L6 1-2 ibib abs

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:5123 CAPLUS
DOCUMENT NUMBER: 140:71022
TITLE: Casein α S2 peptides with angiotensin
I-converting enzyme (ACE)-inhibiting activity for the
preparation of medicaments and foodstuffs for the
treatment of hypertension
INVENTOR(S): Tauzin, Jerome; Miclo, Laurent; Lefranc, Catherine;
Boudier, Jean-Francois; Gaillard, Jean-Luc
PATENT ASSIGNEE(S): Ingredia, Fr.
SOURCE: Eur. Pat. Appl., 19 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374885	A1	20040102	EP 2003-370025	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841473	A1	20040102	FR 2002-8036	20020627
FR 2841473	B1	20040917		
CA 2490282	AA	20040108	CA 2003-2490282	20030624
WO 2004002509	A2	20040108	WO 2003-FR1945	20030624
WO 2004002509	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003255691	A1	20040119	AU 2003-255691	20030624
BR 2003012214	A	20050412	BR 2003-12214	20030624

JP 2005530851 T2 20051013 JP 2004-516859 20030624
 US 2006234942 A1 20061019 US 2005-519164 20050830
 PRIORITY APPLN. INFO.: FR 2002-8036 A 20020627
 WO 2003-FR1945 W 20030624

AB The invention discloses peptides derived from casein α S2 with
 ACE-inhibiting activity for the prevention and treatment of hypertension.
 The peptides may be included in pharmaceutical compns. and foodstuffs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:31272 CAPLUS

DOCUMENT NUMBER: 136:107509

TITLE: α -Casein peptide composition for retarding aging
 of the skin and treating periodontal disease

INVENTOR(S): Smith, John Arthur

PATENT ASSIGNEE(S): Pepsyn Ltd., UK

SOURCE: PCT Int. Appl., 27 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002133	A2	20020110	WO 2001-GB2601	20010613
WO 2002002133	A3	20021017		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2412836	AA	20020110	CA 2001-2412836	20010613
EP 1317274	A2	20030611	EP 2001-938424	20010613
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004501976	T2	20040122	JP 2002-506754	20010613
US 2004014653	A1	20040122	US 2003-312698	20030618
PRIORITY APPLN. INFO.:			GB 2000-16189 A 20000630	
			WO 2001-GB2601 W 20010613	

AB Provided is use of a peptide, or a derivative of a peptide, in the manufacture
 of a

medicament effective in alleviating or preventing periodontal disease,
 wherein the peptide comprises an amino acid sequence present in an
 α -S2 casein precursor, said sequence comprising 3 or more amino
 acids, and not comprising at its N-terminus the N-terminal amino acid of
 the full α -S2 casein precursor. The peptide may alternatively be
 any peptide having an α -S2 casein fragment activity. Further
 provided is use of a peptide, or a derivative of a peptide, in the manufacture

of a
 medicament effective in alleviating or preventing an effect of aging in
 skin, wherein the peptide comprises an amino acid sequence present in an
 α -S2 casein precursor, said sequence comprising 3 or more amino
 acids, and not comprising at its N-terminus the N-terminal amino acid of
 the full α -S2 casein precursor. The peptide may alternatively be
 any peptide having an α -S2 casein fragment activity.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
	11.57	109.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
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L7 0 L5

=> file biosis embase medline ps		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-4.50

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L8 0 L5

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
FULL ESTIMATED COST	ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-4.50

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FILE COVERS 1907 - 15 Nov 2006 VOL 145 ISS 21
FILE LAST UPDATED: 13 Nov 2006 (20061113/ED)

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=> s L5

L9 11 L5

=> d L9 1-11 ibib abs

L9 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:5123 CAPLUS

DOCUMENT NUMBER: 140:71022

TITLE: Casein α S2 peptides with angiotensin I-converting enzyme (ACE)-inhibiting activity for the preparation of medicaments and foodstuffs for the treatment of hypertension

INVENTOR(S): Tauzin, Jerome; Miclo, Laurent; Lefranc, Catherine; Boudier, Jean-Francois; Gaillard, Jean-Luc

PATENT ASSIGNEE(S): Ingredia, Fr.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374885	A1	20040102	EP 2003-370025	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841473	A1	20040102	FR 2002-8036	20020627
FR 2841473	B1	20040917		
CA 2490282	AA	20040108	CA 2003-2490282	20030624
WO 2004002509	A2	20040108	WO 2003-FR1945	20030624
WO 2004002509	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

AU 2003255691	A1	20040119	AU 2003-255691	20030624
BR 2003012214	A	20050412	BR 2003-12214	20030624
JP 2005530851	T2	20051013	JP 2004-516859	20030624
US 2006234942	A1	20061019	US 2005-519164	20050830
PRIORITY APPLN. INFO.:			FR 2002-8036	A 20020627
			WO 2003-FR1945	W 20030624

AB The invention discloses peptides derived from casein α S2 with ACE-inhibiting activity for the prevention and treatment of hypertension. The peptides may be included in pharmaceutical compns. and foodstuffs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:839514 CAPLUS

DOCUMENT NUMBER: 138:362404

TITLE: Angiotensin-I-converting enzyme inhibitory peptides from tryptic hydrolysate of bovine α S2-casein

AUTHOR(S): Tauzin, Jerome; Miclo, Laurent; Gaillard, Jean-Luc

CORPORATE SOURCE: Laboratoire des BioSciences de l'Aliment, Faculte des Sciences et Techniques, UC 885 INRA, Universite Henri Poincare Nancy 1, Vandoeuvre-le` s-Nancy, 54506, Fr.

SOURCE: FEBS Letters (2002), 531(2), 369-374

CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Angiotensin-I-converting enzyme (ACE) inhibitory activity of a tryptic digest of bovine α S2-casein (α S2-CN) was extensively investigated. Forty-three peptide peaks were isolated and tested. Seven casokinins (i.e. CN-derived ACE inhibitory peptides) were identified and their IC50 values were determined. Four peptides exhibited an IC50 value lower than 20 μ M. Peptides α S2-CN (f174-181) and α S2-CN (f174-179) had IC50 values of 4 μ M. Surprisingly, deletion of the C-terminal dipeptide of two of these casokinins did not significantly alter their inhibitory activity.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:52829 CAPLUS

DOCUMENT NUMBER: 137:196485

TITLE: Molecular genetic characterization of the goat α S2-casein E allele

AUTHOR(S): Lagonigro, R.; Pietrola, E.; D'Andrea, M.; Veltri, C.; Pilla, F.

CORPORATE SOURCE: Dipartimento di Scienze Animali Vegetali e dell'Ambiente, Universita del Molise, Campobasso, Italy

SOURCE: Animal Genetics (2001), 32(6), 391-393

CODEN: ANGE3; ISSN: 0268-9146

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB As2 casein is one of the major protein of ruminants milk, and in goats, four alleles have already been described at the DNA level. DNA was extracted from whole blood of a goat specimen showing a homozygous E pattern to detect the mutation determining the phenotypic variant. All 18 exons of the α s2 gene were amplified and sequenced, using primers selected according to the bovine intronic sequence. A mutation was identified at the eighty-third base of the exon 16, where cytosine was replaced by a guanine. In the encoded E protein variant, a proline replaced by an arginine in position 197 of the mature protein. The sequence of the amplified cDNA confirmed that the E allele presented a nucleotide substitution in the eighty-third base of the exon 16.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:37476 CAPLUS
DOCUMENT NUMBER: 136:244141
TITLE: Three oligopeptide-binding proteins are involved in the oligopeptide transport of Streptococcus thermophilus
AUTHOR(S): Garault, Peggy; Le Bars, Dominique; Besset, Colette; Monnet, Veronique
CORPORATE SOURCE: Unite de Biochimie et Structure des Proteines, Institut National de la Recherche Agronomique, Jouy en Josas, 78352, Fr.
SOURCE: Journal of Biological Chemistry (2002), 277(1), 32-39
CODEN: JBCHA3; ISSN: 0021-9258
PUBLISHER: American Society for Biochemistry and Molecular Biology
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The functions necessary for bacterial growth strongly depend on the features of the bacteria and the components of the growth media. Our objective was to identify the functions essential to the optimum growth of Streptococcus thermophilus in milk. Using random insertional mutagenesis on a S. thermophilus strain chosen for its ability to grow rapidly in milk, we obtained several mutants incapable of rapid growth in milk. We isolated and characterized one of these mutants in which an amiA1 gene encoding an oligopeptide-binding protein (OBP) was interrupted. This gene was a part of an operon containing all the components of an ATP binding cassette transporter. Three highly homologous amiA genes encoding OBPs work with the same components of the ATP transport system. Their simultaneous inactivation led to a drastic diminution in the growth rate in milk and the absence of growth in chemical defined medium containing peptides as the nitrogen source. We constructed single and multiple neg. mutants for AmiAs and cell wall proteinase (PrtS), the only proteinase capable of hydrolyzing casein oligopeptides outside the cell. Growth expts. in chemical defined medium containing peptides indicated that AmiA1, AmiA2, and AmiA3 exhibited overlapping substrate specificities, and that the whole system allows the transport of peptides containing from 3 to 23 residues.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:31272 CAPLUS
DOCUMENT NUMBER: 136:107509
TITLE: α -Casein peptide composition for retarding aging of the skin and treating periodontal disease
INVENTOR(S): Smith, John Arthur
PATENT ASSIGNEE(S): Pepsyn Ltd., UK
SOURCE: PCT Int. Appl., 27 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002133	A2	20020110	WO 2001-GB2601	20010613
WO 2002002133	A3	20021017		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,

RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

CA 2412836 AA 20020110 CA 2001-2412836 20010613
EP 1317274 A2 20030611 EP 2001-938424 20010613

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004501976 T2 20040122 JP 2002-506754 20010613
US 2004014653 A1 20040122 US 2003-312698 20030618

PRIORITY APPLN. INFO.:

GB 2000-16189 A 20000630
WO 2001-GB2601 W 20010613

AB Provided is use of a peptide, or a derivative of a peptide, in the manufacture of a

medicament effective in alleviating or preventing periodontal disease, wherein the peptide comprises an amino acid sequence present in an α -S2 casein precursor, said sequence comprising 3 or more amino acids, and not comprising at its N-terminus the N-terminal amino acid of the full α -S2 casein precursor. The peptide may alternatively be any peptide having an α -S2 casein fragment activity. Further provided is use of a peptide, or a derivative of a peptide, in the manufacture

of a

medicament effective in alleviating or preventing an effect of aging in skin, wherein the peptide comprises an amino acid sequence present in an α -S2 casein precursor, said sequence comprising 3 or more amino acids, and not comprising at its N-terminus the N-terminal amino acid of the full α -S2 casein precursor. The peptide may alternatively be any peptide having an α -S2 casein fragment activity.

L9 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:29682 CAPLUS

DOCUMENT NUMBER: 132:219990

TITLE: Casein related amyloid, characterization of a new and unique amyloid protein isolated from bovine corpora amylacea

AUTHOR(S): Niewold, Theodoor A.; Murphy, Charles L.;
Hulskamp-Koch, Claartje A. M.; Tooten, Peter C. J.;
Gruys, Erik

CORPORATE SOURCE: Institute for Animal Science and Health (ID-DLO),
Lelystad, NL-8200 AB, Neth.

SOURCE: Amyloid (1999), 6(4), 244-249
CODEN: AIJJET; ISSN: 1350-6129

PUBLISHER: Parthenon Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Amyloid bodies can be found in mammary secretory tissue of various species. These corpora amylacea (CA) have a lamellated structure, contain amyloid fibrils and are predominantly located in the alveolar lumina. The nature of the amyloid was not known, but CA were suggested to originate either from milk casein or mammary alveolar epithelial keratin. In the present report, bovine CA were analyzed histochem. Furthermore, CA were isolated, analyzed and the amyloid was purified and characterized by amino acid sequencing. CA amyloid appeared to be potassium permanganate sensitive and tryptophan pos., and in this respect different from most other amyloid types except for AA and β -2 microglobulin amyloid. Gel filtration of purified amyloid fibrils showed a HMW peak and a major 4 kDa peak. N-terminal amino acid sequencing showed the amyloid to consist of tryptic-like peptides with an unusually high content of amino acids with bulky side chains. The amyloid protein was identified as derived from α -S2-casein. The fragments are of varying length (32, 33 and 45 amino acids), but all start at position 81 of α -S2-casein. We have identified a new and unique amyloid protein, and we propose to designate it as according to the guidelines for amyloid nomenclature.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:71228 CAPLUS
DOCUMENT NUMBER: 122:284799
TITLE: Biochemical and genetic analysis of variant C of caprine α s2-casein (*Capra hircus*)
AUTHOR(S): Bouniol, C.; Brignon, G.; Mahe, M F.; Printz, C.
CORPORATE SOURCE: Unite de developpement concertee INSERM U-310-INRA Station 806, Institut de Biologie Physico-chimique, Paris, 75005, Fr.
SOURCE: Animal Genetics (1994), 25(3), 173-7
CODEN: ANGE3; ISSN: 0268-9146
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two alleles, A and B, were previously described at the goat α s2-casein locus. Isoelec. focusing allowed the us to subdivide the former one in two new alleles, called A and C. Although α s2-casein C cannot actually be distinguished from its A counterpart by starch or PAGE, it differs from the previous allele by a single substitution Lys (A)/Ile (C) at position 167, which was confirmed at the nucleotide level. The frequencies of the three α s2-casein alleles A, B and C were estimated to be 0.85, 0.04 and 0.11 in the French dairy breeds "Alpine" and "Saanen".

L9 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:210960 CAPLUS
DOCUMENT NUMBER: 120:210960
TITLE: Characterization of goat allelic α s2-caseins A and B: Further evidence of the phosphorylation code of caseins
AUTHOR(S): Bouniol, Christine; Brignon, Ghislaine; Mahe, Marie-Francoise; Printz, Christiane
CORPORATE SOURCE: Lab. Genet. Biochim., INRA, Jouy-en-Josas, F-78352, Fr.
SOURCE: Protein Sequences & Data Analysis (1993), 5(5), 213-8
CODEN: PSDAE6; ISSN: 0931-9506
DOCUMENT TYPE: Journal
LANGUAGE: English

AB As in other European goat breeds, in the French 'Alpine' and 'Saanen' goat races α s2-casein exists as two allelic forms, A and B, identified by gel electrophoresis. Anal. of elution profiles of enzymic digests of purified α s2-caseins A and B fractions and sequencing of some relevant peptides allowed the chemical characterization of both genetic variants, and these are in good agreement with the observed electrophoretic mobilities. α s2-casein B differs from its predominant A counterpart (allelic frequency .apprx.0.85) by an amino acid substitution Ser-Ala-Lys (B)/SerP62-Ala-Glu64(A), which provides indirect evidence of the phosphorylation code of caseins. The lack of a phosphate group on Ser62 in variant α s2-casein B can be readily explained by the Lys/Glu replacement which affects the Glu determinant in the tripeptide phosphorylation recognition site.

L9 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:228588 CAPLUS
DOCUMENT NUMBER: 118:228588
TITLE: Sequence of the goat α s2-casein-encoding cDNA
AUTHOR(S): Bouniol, Christine
CORPORATE SOURCE: Lab. Genet. Biochim., Inst. Natl. Rech. Agron., Jouy-en-Josas, 78350, Fr.
SOURCE: Gene (1993), 125(2), 235-6
CODEN: GENED6; ISSN: 0378-1119
DOCUMENT TYPE: Journal

LANGUAGE: English

AB The complete nucleotide sequence of a caprine α s2-casein-encoding cDNA and the deduced 223-amino-acid sequence of pre- α s2-casein were determined

L9 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:167497 CAPLUS

DOCUMENT NUMBER: 116:167497

TITLE: Multiple mRNA species code for two non-allelic forms of ovine α s2-casein

AUTHOR(S): Boissnard, Monique; Hue, Dominique; Bouniol, Christine; Mercier, Jean Claude; Gaye, Pierre

CORPORATE SOURCE: Unite Endocrinol. Mol., Inst. Natl. Rech. Agron., Jouy-en-Josas, Fr.

SOURCE: European Journal of Biochemistry (1991), 201(3), 633-41

CODEN: EJBCAI; ISSN: 0014-2956

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The two-allelic forms of α s2-casein, occurring in ovine milk, differ by an internal deletion of nine amino acid residues, including both cysteine residues at positions 34 and 42 in the mature chain. Sequencing of several α s2-casein cDNAs, isolated from the mammary cDNA library of a single lactating ewe, showed three new types which differed from that previously studied. In addition to the expected deletion of codons +34 to +42, affecting 30-40% of mRNA, another structural difference involving an internal stretch of 44 nucleotides in the 5'-untranslated region, was found. S1-nuclease protection assays confirmed the existence of several types of the relevant mRNA and sequencing of in-vitro-amplified genomic DNA demonstrated the presence of the 44-nucleotide stretch in the α s2-casein transcriptional unit, thus ruling out the possibility of a cloning artifact. The different α s2-casein mRNA, four containing deletions and two containing nucleotide substitutions for a given ewe, can be readily explained by partial exon skipping and allelic differences, resp. This assumption is well supported by the following observations: 5' and 3' ends of both deleted DNA fragments are similar to those of exons; sequences neighboring the 44-nucleotide stretch of the genomic DNA perfectly match consensus sequences described for 3' and 5' ends of introns; the rather simple patterns observed on Southern blots of different enzymic digests of genomic DNA strongly suggest the occurrence of only 1 copy of the α s2-casein gene/haploid genome. During the course of evolution, the α s2-casein-encoding gene has undergone many mutations and some of them might have occurred in regions corresponding to consensus splicing regions of the pre-mRNA. Thus, complete skipping of some exons might be responsible for the shorter sizes of rat and mouse α s2-casein mRNA. If so, the overall organization of the α s2-casein gene in the different species might be more similar than expected from structural comparisons of the cognate mRNA or caseins.

L9 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:46554 CAPLUS

DOCUMENT NUMBER: 104:46554

TITLE: Complete sequence of ovine α s2-casein messenger RNA

AUTHOR(S): Boissnard, Monique; Petrissant, Guy

CORPORATE SOURCE: Lab. Physiol. Lactation, INRA, Jouy-en-Josas, 78350, Fr.

SOURCE: Biochimie (1985), 67(9), 1043-51

CODEN: BICMBE; ISSN: 0300-9084

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The primary structure of mRNA coding for ovine α s2 casein was determined by chemical sequencing of 3 cDNA clones and of the primer extension products of the longest one. The mRNA was 1024 nucleotides long, excluding the

poly(A) tail. The lengths of the 5'-noncoding, coding and 3'-noncoding regions were 53, 669 and 302 nucleotides, resp. A comparison of the nucleotide sequences of ovine α s2-casein and guinea-pig casein A mRNAs revealed an extensive homol. in the 5'- and 3'-noncoding regions. The deduced amino acid sequence of ovine α s2 casein was compared with its bovine and guinea pig counterparts. An heterogeneity was evidenced in the mRNA population of the α s2 casein.

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L10 26 ALNEINQFY/SQSP

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=> s L10

L11 12 L10

=> D L11 1-12 ibib abs

L11 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:5123 CAPLUS

DOCUMENT NUMBER: 140:71022

TITLE: Casein α S2 peptides with angiotensin
I-converting enzyme (ACE)-inhibiting activity for the
preparation of medicaments and foodstuffs for the
treatment of hypertension

INVENTOR(S): Tauzin, Jerome; Miclo, Laurent; Lefranc, Catherine;
Boudier, Jean-Francois; Gaillard, Jean-Luc

PATENT ASSIGNEE(S): Ingredia, Fr.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374885	A1	20040102	EP 2003-370025	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841473	A1	20040102	FR 2002-8036	20020627
FR 2841473	B1	20040917		
CA 2490282	AA	20040108	CA 2003-2490282	20030624
WO 2004002509	A2	20040108	WO 2003-FR1945	20030624
WO 2004002509	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003255691	A1	20040119	AU 2003-255691	20030624
BR 2003012214	A	20050412	BR 2003-12214	20030624
JP 2005530851	T2	20051013	JP 2004-516859	20030624
US 2006234942	A1	20061019	US 2005-519164	20050830
PRIORITY APPLN. INFO.:			FR 2002-8036	A 20020627
			WO 2003-FR1945	W 20030624

AB The invention discloses peptides derived from casein α S2 with

ACE-inhibiting activity for the prevention and treatment of hypertension.

The peptides may be included in pharmaceutical compns. and foodstuffs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:839514 CAPLUS

DOCUMENT NUMBER: 138:362404

TITLE: Angiotensin-I-converting enzyme inhibitory peptides
from tryptic hydrolysate of bovine α S2-casein

AUTHOR(S): Tauzin, Jerome; Miclo, Laurent; Gaillard, Jean-Luc

CORPORATE SOURCE: Laboratoire des BioSciences de l'Aliment, Faculte des
Sciences et Techniques, UC 885 INRA, Universite Henri
Poincare Nancy 1, Vandoeuvre-le`s-Nancy, 54506, Fr.

SOURCE: FEBS Letters (2002), 531(2), 369-374

CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Angiotensin-I-converting enzyme (ACE) inhibitory activity of a tryptic
digest of bovine α S2-casein (α S2-CN) was extensively
investigated. Forty-three peptide peaks were isolated and tested. Seven
casokinins (i.e. CN-derived ACE inhibitory peptides) were identified and
their IC50 values were determined. Four peptides exhibited an IC50 value lower
than 20 μ M. Peptides α S2-CN (f174-181) and α S2-CN
(f174-179) had IC50 values of 4 μ M. Surprisingly, deletion of the
C-terminal dipeptide of two of these casokinins did not significantly
alter their inhibitory activity.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:52829 CAPLUS

DOCUMENT NUMBER: 137:196485

TITLE: Molecular genetic characterization of the goat
 α S2-casein E allele

AUTHOR(S): Lagonigro, R.; Pietrola, E.; D'Andrea, M.; Veltri, C.;
Pilla, F.

CORPORATE SOURCE: Dipartimento di Scienze Animali Vegetali e dell'
Ambiente, Universita del Molise, Campobasso, Italy

SOURCE: Animal Genetics (2001), 32(6), 391-393

CODEN: ANGE3; ISSN: 0268-9146

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB As2 casein is one of the major protein of ruminants milk, and in goats,
four alleles have already been described at the DNA level. DNA was extracted
from whole blood of a goat specimen showing a homozygous E pattern to
detect the mutation determining the phenotypic variant. All 18 exons of the
 α s2 gene were amplified and sequenced, using primers selected
according to the bovine intronic sequence. A mutation was identified at
the eighty-third base of the exon 16, where cytosine was replaced by a
guanine. In the encoded E protein variant, a proline replaced by an
arginine in position 197 of the mature protein. The sequence of the
amplified cDNA confirmed that the E allele presented a nucleotide
substitution in the eighty-third base of the exon 16.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:37476 CAPLUS

DOCUMENT NUMBER: 136:244141

TITLE: Three oligopeptide-binding proteins are involved in
the oligopeptide transport of Streptococcus

thermophilus
 AUTHOR(S): Garault, Peggy; Le Bars, Dominique; Besset, Colette; Monnet, Veronique
 CORPORATE SOURCE: Unite de Biochimie et Structure des Proteines, Institut National de la Recherche Agronomique, Jouy en Josas, 78352, Fr.
 SOURCE: Journal of Biological Chemistry (2002), 277(1), 32-39
 CODEN: JBCHA3; ISSN: 0021-9258
 PUBLISHER: American Society for Biochemistry and Molecular Biology
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB The functions necessary for bacterial growth strongly depend on the features of the bacteria and the components of the growth media. Our objective was to identify the functions essential to the optimum growth of Streptococcus thermophilus in milk. Using random insertional mutagenesis on a S. thermophilus strain chosen for its ability to grow rapidly in milk, we obtained several mutants incapable of rapid growth in milk. We isolated and characterized one of these mutants in which an amiA gene encoding an oligopeptide-binding protein (OBP) was interrupted. This gene was a part of an operon containing all the components of an ATP binding cassette transporter. Three highly homologous amiA genes encoding OBPs work with the same components of the ATP transport system. Their simultaneous inactivation led to a drastic diminution in the growth rate in milk and the absence of growth in chemical defined medium containing peptides as the nitrogen source. We constructed single and multiple neg. mutants for AmiAs and cell wall proteinase (PrtS), the only proteinase capable of hydrolyzing casein oligopeptides outside the cell. Growth expts. in chemical defined medium containing peptides indicated that AmiA1, AmiA2, and AmiA3 exhibited overlapping substrate specificities, and that the whole system allows the transport of peptides containing from 3 to 23 residues.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 12 CAPLUS. COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:31272 CAPLUS
 DOCUMENT NUMBER: 136:107509
 TITLE: α -Casein peptide composition for retarding aging of the skin and treating periodontal disease
 INVENTOR(S): Smith, John Arthur
 PATENT ASSIGNEE(S): Pepsyn Ltd., UK
 SOURCE: PCT Int. Appl., 27 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002002133	A2	20020110	WO 2001-GB2601	20010613
WO 2002002133	A3	20021017		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2412836	AA	20020110	CA 2001-2412836	20010613
EP 1317274	A2	20030611	EP 2001-938424	20010613

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR

JP 2004501976 T2 20040122 JP 2002-506754 20010613

US 2004014653 A1 20040122 US 2003-312698 20030618

PRIORITY APPLN..INFO.: GB 2000-16189 A 20000630

WO 2001-GB2601 W 20010613

AB Provided is use of a peptide, or a derivative of a peptide, in the manufacture of a

medicament effective in alleviating or preventing periodontal disease, wherein the peptide comprises an amino acid sequence present in an α -S2 casein precursor, said sequence comprising 3 or more amino acids, and not comprising at its N-terminus the N-terminal amino acid of the full α -S2 casein precursor. The peptide may alternatively be any peptide having an α -S2 casein fragment activity. Further provided is use of a peptide, or a derivative of a peptide, in the manufacture

of a

medicament effective in alleviating or preventing an effect of aging in skin, wherein the peptide comprises an amino acid sequence present in an α -S2 casein precursor, said sequence comprising 3 or more amino acids, and not comprising at its N-terminus the N-terminal amino acid of the full α -S2 casein precursor. The peptide may alternatively be any peptide having an α -S2 casein fragment activity.

L11 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:29682 CAPLUS

DOCUMENT NUMBER: 132:219990

TITLE: Casein related amyloid, characterization of a new and unique amyloid protein isolated from bovine corpora amylacea

AUTHOR(S): Niewold, Theodoor A.; Murphy, Charles L.;
Hulskamp-Koch, Claartje A. M.; Tooten, Peter C. J.;
Gruys, Erik

CORPORATE SOURCE: Institute for Animal Science and Health (ID-DLO),
Lelystad, NL-8200 AB, Neth.

SOURCE: Amyloid (1999), 6(4), 244-249
CODEN: AIJJET; ISSN: 1350-6129

PUBLISHER: Parthenon Publishing Group

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Amyloid bodies can be found in mammary secretory tissue of various species. These corpora amylacea (CA) have a lamellated structure, contain amyloid fibrils and are predominantly located in the alveolar lumina. The nature of the amyloid was not known, but CA were suggested to originate either from milk casein or mammary alveolar epithelial keratin. In the present report, bovine CA were analyzed histochem. Furthermore, CA were isolated, analyzed and the amyloid was purified and characterized by amino acid sequencing. CA amyloid appeared to be potassium permanganate sensitive and tryptophan pos., and in this respect different from most other amyloid types except for AA and β -2 microglobulin amyloid. Gel filtration of purified amyloid fibrils showed a HMW peak and a major 4 kDa peak. N-terminal amino acid sequencing showed the amyloid to consist of tryptic-like peptides with an unusually high content of amino acids with bulky side chains. The amyloid protein was identified as derived from α -S2-casein. The fragments are of varying length (32, 33 and 45 amino acids), but all start at position 81 of α -S2-casein. We have identified a new and unique amyloid protein, and we propose to designate it as according to the guidelines for amyloid nomenclature.

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:71228 CAPLUS

DOCUMENT NUMBER: 122:284799

TITLE: Biochemical and genetic analysis of variant C of

caprine α 2-casein (Capra hircus)
AUTHOR(S): Bouniol, C.; Brignon, G.; Mahe, M F.; Printz, C.
CORPORATE SOURCE: Unite de developpement concertee INSERM U-310-INRA
Station 806, Institut de Biologie Physico-chimique,
Paris, 75005, Fr.
SOURCE: Animal Genetics (1994), 25(3), 173-7
CODEN: ANGE3; ISSN: 0268-9146
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two alleles, A and B, were previously described at the goat
 α 2-casein locus. Isoelec. focusing allowed the us to subdivide the
former one in two new alleles, called A and C. Although α 2-casein
C cannot actually be distinguished from its A counterpart by starch or
PAGE, it differs from the previous allele by a single substitution Lys
(A)/Ile (C) at position 167, which was confirmed at the nucleotide level.
The frequencies of the three α 2-casein alleles A, B and C were
estimated to be 0.85, 0.04 and 0.11 in the French dairy breeds "Alpine" and
"Saanen".

L11 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1994:210960 CAPLUS
DOCUMENT NUMBER: 120:210960
TITLE: Characterization of goat allelic α 2-caseins A
and B: Further evidence of the phosphorylation code of
caseins
AUTHOR(S): Bouniol, Christine; Brignon, Ghislaine; Mahe,
Marie-Francoise; Printz, Christiane
CORPORATE SOURCE: Lab. Genet. Biochim., INRA, Jouy-en-Josas, F-78352,
Fr.
SOURCE: Protein Sequences & Data Analysis (1993), 5(5), 213-8
CODEN: PSDAE6; ISSN: 0931-9506
DOCUMENT TYPE: Journal
LANGUAGE: English
AB As in other European goat breeds, in the French 'Alpine' and 'Saanen' goat
races α 2-casein exists as two allelic forms, A and B, identified by
gel electrophoresis. Anal. of elution profiles of enzymic digests of
purified α 2-caseins A and B fractions and sequencing of some
relevant peptides allowed the chemical characterization of both genetic
variants, and these are in good agreement with the observed electrophoretic
mobilities. α 2-casein B differs from its predominant A counterpart
(allelic frequency .apprx.0.85) by an amino acid substitution Ser-Ala-Lys
(B)/SerP62-Ala-Glu64(A), which provides indirect evidence of the
phosphorylation code of caseins. The lack of a phosphate group on Ser62
in variant α 2-casein B can be readily explained by the Lys/Glu
replacement which affects the Glu determinant in the tripeptide
phosphorylation recognition site.

L11 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:228588 CAPLUS
DOCUMENT NUMBER: 118:228588
TITLE: Sequence of the goat α 2-casein-encoding cDNA
AUTHOR(S): Bouniol, Christine
CORPORATE SOURCE: Lab. Genet. Biochim., Inst. Natl. Rech. Agron.,
Jouy-en-Josas, 78350, Fr.
SOURCE: Gene (1993), 125(2), 235-6
CODEN: GENED6; ISSN: 0378-1119
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The complete nucleotide sequence of a caprine α 2-casein-encoding
cDNA and the deduced 223-amino-acid sequence of pre- α 2-casein were
determined

L11 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:167497 CAPLUS

DOCUMENT NUMBER: 116:167497
TITLE: Multiple mRNA species code for two non-allelic forms of ovine α s2-casein
AUTHOR(S): Boissnard, Monique; Hue, Dominique; Bouniol, Christine; Mercier, Jean Claude; Gaye, Pierre
CORPORATE SOURCE: Unite Endocrinol. Mol., Inst. Natl. Rech. Agron., Jouy-en-Josas, Fr.
SOURCE: European Journal of Biochemistry (1991), 201(3), 633-41
CODEN: EJBCAI; ISSN: 0014-2956
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The two-allelic forms of α s2-casein, occurring in ovine milk, differ by an internal deletion of nine amino acid residues, including both cysteine residues at positions 34 and 42 in the mature chain. Sequencing of several α s2-casein cDNAs, isolated from the mammary cDNA library of a single lactating ewe, showed three new types which differed from that previously studied. In addition to the expected deletion of codons +34 to +42, affecting 30-40% of mRNA, another structural difference involving an internal stretch of 44 nucleotides in the 5'-untranslated region, was found. S1-nuclease protection assays confirmed the existence of several types of the relevant mRNA and sequencing of in-vitro-amplified genomic DNA demonstrated the presence of the 44-nucleotide stretch in the α s2-casein transcriptional unit, thus ruling out the possibility of a cloning artifact. The different α s2-casein mRNA, four containing deletions and two containing nucleotide substitutions for a given ewe, can be readily explained by partial exon skipping and allelic differences, resp. This assumption is well supported by the following observations: 5' and 3' ends of both deleted DNA fragments are similar to those of exons; sequences neighboring the 44-nucleotide stretch of the genomic DNA perfectly match consensus sequences described for 3' and 5' ends of introns; the rather simple patterns observed on Southern blots of different enzymic digests of genomic DNA strongly suggest the occurrence of only 1 copy of the α s2-casein gene/haploid genome. During the course of evolution, the α s2-casein-encoding gene has undergone many mutations and some of them might have occurred in regions corresponding to consensus splicing regions of the pre-mRNA. Thus, complete skipping of some exons might be responsible for the shorter sizes of rat and mouse α s2-casein mRNA. If so, the overall organization of the α s2-casein gene in the different species might be more similar than expected from structural comparisons of the cognate mRNA or caseins.

L11 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:611264 CAPLUS
DOCUMENT NUMBER: 111:211264
TITLE: Application of reversed-phase high-performance liquid chromatography to the separation of peptides from phosphorylated and dephosphorylated casein hydrolyzates
AUTHOR(S): Lemieux, Lise; Amiot, Jean
CORPORATE SOURCE: Dep. Sci. Technol. Aliments, STELA, Sainte-Foy, QC, G1K 7P4, Can.
SOURCE: Journal of Chromatography (1989), 473(1), 189-206
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Peptides from phosphorylated and dephosphorylated casein hydrolyzates were fractionated on a TSK G2000SW size-exclusion column. The fractionated peptides were separated by reversed-phase HPLC on a C18 column using aqueous trifluoroacetic acid as the mobile phase and acetonitrile as the mobile phase modifier in the linear gradient elution system. The separation of the dephosphorylated and phosphorylated hydrolyzates gave 213 and 187 peptides, resp., of which 116 and 99, resp., were reported. A study of their composition and retention times verified that the peptide separation mechanism

includes ionic interactions, H bonding and peptide characteristics, in addition to overall peptide hydrophobicity.

L11 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:46554 CAPLUS

DOCUMENT NUMBER: 104:46554

TITLE: Complete sequence of ovine α 2-casein messenger RNA

AUTHOR(S): Boissnard, Monique; Petrissant, Guy

CORPORATE SOURCE: Lab. Physiol. Lactation, INRA, Jouy-en-Josas, 78350, Fr.

SOURCE: Biochimie (1985), 67(9), 1043-51

CODEN: BICMBE; ISSN: 0300-9084

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The primary structure of mRNA coding for ovine α 2 casein was determined by chemical sequencing of 3 cDNA clones and of the primer extension products of the longest one. The mRNA was 1024 nucleotides long, excluding the poly(A) tail. The lengths of the 5'-noncoding, coding and 3'-noncoding regions were 53, 669 and 302 nucleotides, resp. A comparison of the nucleotide sequences of ovine α 2-casein and guinea-pig casein A mRNAs revealed an extensive homol. in the 5'- and 3'-noncoding regions. The deduced amino acid sequence of ovine α 2 casein was compared with its bovine and guinea pig counterparts. An heterogeneity was evidenced in the mRNA population of the α 2 casein.

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L12 2210941 YL/SQSP

=> file caplus
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ENTRY	SESSION
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FILE COVERS 1907 - 15 Nov 2006 VOL 145 ISS 21
FILE LAST UPDATED: 13 Nov 2006 (20061113/ED)

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=> s L12 and patent/dt

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254.52

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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0.00

-21.75

STN INTERNATIONAL LOGOFF AT 09:18:55 ON 15 NOV 2006

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("5238921").PN.	USPAT; USOCR	OR	OFF	2006/11/15 11:30
L2	63088	casein	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/11/15 11:30
L3	1	L1 and hypertension	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/11/15 11:31
L4	0	L1 and (alpha near5 casein)	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/11/15 11:31
L5	1	L1 and alpha	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2006/11/15 11:31

US 5238921 A USPAT

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NEWS 7 SEP 21 CA/CAplus fields enhanced with simultaneous left and right
truncation
NEWS 8 SEP 25 CA(SM)/CAplus(SM) display of CA Lexicon enhanced
NEWS 9 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 10 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 11 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme
NEWS 12 OCT 19 LOGOFF HOLD duration extended to 120 minutes
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NEWS 15 OCT 23 CAS Registry Number crossover limit increased to 300,000 in
multiple databases
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has been enhanced and reloaded
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NEWS 21 NOV 13 CA/CAplus pre-1967 chemical substance index entries enhanced
with preparation role

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ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

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DICTIONARY FILE UPDATES: 14 NOV 2006 HIGHEST RN 913238-98-9

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=> s FALPQYLK/sqsp
L1 10 FALPQYLK/SQSP

=> d cn sql seq 1-10

L1 ANSWER 1 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN L-Leucine, L-leucyl-L-lysyl-L-lysyl-L-isoleucyl-L-seryl-L-glutaminyl-L-
arginyl-L-tyrosyl-L-glutaminyl-L-lysyl-L-phenylalanyl-L-alanyl-L-leucyl-L-
prolyl-L-glutaminyl-L-tyrosyl-L-leucyl-L-lysyl-L-threonyl-L-valyl-L-
tyrosyl-L-glutaminyl-L-histidyl-L-glutaminyl-L-lysyl-L-alanyl-L-methionyl-
L-lysyl-L-prolyl-L-tryptophyl-L-isoleucyl-L-glutaminyl-L-prolyl-L-lysyl-L-
threonyl-L-lysyl-L-valyl-L-isoleucyl-L-prolyl-L-tyrosyl-L-valyl-L-arginyl-
L-tyrosyl- (9CI) (CA INDEX NAME)
SQL 44

SEQ 1 LKKISQRYQK FALPQYLKTV YQHOKAMKPW IQPKTKVIPY VRYL
=====

HITS AT: 11-18

L1 ANSWER 2 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN L-Leucine, L-glutaminyl-L-lysyl-L-phenylalanyl-L-alanyl-L-leucyl-L-prolyl-
L-glutaminyl-L-tyrosyl-L-leucyl-L-lysyl-L-threonyl-L-valyl-L-tyrosyl-L-
glutaminyl-L-histidyl-L-glutaminyl-L-lysyl-L-alanyl-L-methionyl-L-lysyl-L-
prolyl-L-tryptophyl-L-isoleucyl-L-glutaminyl-L-prolyl-L-lysyl-L-threonyl-L-
lysyl-L-valyl-L-isoleucyl-L-prolyl-L-tyrosyl-L-valyl-L-arginyl-L-tyrosyl-
(9CI) (CA INDEX NAME)
SQL 36

SEQ 1 QKFALPQYLK TVYQHOKAMK PWIQPKTKVI PYVRYL
=====

HITS AT: 3-10

L1 ANSWER 3 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN Protein (Oryza sativa clone PAT_MRT4530_28411C.1.pep fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 803: PN: US20040123343 SEQID: 125803 claimed protein
SQL 114

SEQ 1 QYLQYLYQGP IVLSPWDQVK RNAVPITPTL NREQLSTSEE NSKKTVDMES
51 TEVFTKKTKL TEEKNRLNF LKKISQRYQK FALPQYLKTV YQHOKAMKPW
=====

101 IQPKTKVIPY VRYL
HITS AT: 81-88

L1 ANSWER 4 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN L-Lysine, L-lysyl-L-lysyl-L-isoleucyl-L-seryl-L-glutaminyl-L-arginyl-L-tyrosyl-L-glutaminyl-L-lysyl-L-phenylalanyl-L-alanyl-L-leucyl-L-prolyl-L-glutaminyl-L-tyrosyl-L-leucyl-L-lysyl-L-threonyl-L-valyl-L-tyrosyl-L-glutaminyl-L-histidyl-L-glutaminyl- (9CI) (CA INDEX NAME)

SQL 24

SEQ 1 KKISQRYQKF ALPQYLKTVY QHOK
= =====

HITS AT: 10-17

L1 ANSWER 5 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN GenBank AAA30479 (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AAA30479 (Translated from: GenBank M16644)
SQL 222

SEQ 1 MKFFIFTCLL AVALAKNTME HVSSSEESII SQETYKQEK MAINPSKENL
51 CSTFCKEVVR NANEEEYSIG SSSEESA EVA TEEVKITVDD KHYQKALNEI
101 NQFYQKFPQY LQYLYQGPIV LNPWDQVKRN AVPITPTLNR EQLSTSEENS
151 KKTVDMESTE VFTKKTKLTE EEKNRLNFLK KISQRYQKFA LPQYLKTVYQ
== =====

201 HQKAMKPW IQ PKTKVIPYVR YL
HITS AT: 189-196

L1 ANSWER 6 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN 2-39-Casocidin I, 39a-L-alanine- (9CI) (CA INDEX NAME)
SQL 39

SEQ 1 TKLTREEKNR LNFLKKISQR YQKFALPQYL KTVYQHOKA
===== =

HITS AT: 24-31

L1 ANSWER 7 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN Casocidin I, 39a-L-alanine- (9CI) (CA INDEX NAME)

SQL 40

SEQ 1 KTKLTREEKN RLNFLKKISQ RYQKFALPQY LKTVYQHOKA
===== ==

HITS AT: 25-32

L1 ANSWER 8 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN
CN Casocidin I (9CI) (CA INDEX NAME)

OTHER NAMES:

CN L-Lysine, L-lysyl-L-threonyl-L-lysyl-L-leucyl-L-threonyl-L- α -glutamyl-L- α -glutamyl-L- α -glutamyl-L-lysyl-L-asparaginyl-L-arginyl-L-leucyl-L-asparaginyl-L-phenylalanyl-L-leucyl-L-lysyl-L-isoleucyl-L-seryl-L-glutaminyl-L-arginyl-L-tyrosyl-L-glutaminyl-L-lysyl-L-phenylalanyl-L-alanyl-L-leucyl-L-prolyl-L-glutaminyl-L-tyrosyl-L-leucyl-L-lysyl-L-threonyl-L-valyl-L-tyrosyl-L-glutaminyl-L-histidyl-L-glutaminyl-

SQL 39

SEQ 1 KTKLTEEEKN RLNFLKKISQ RYQKFALPOY LKTVYQHOK

=====

HITS AT: 25-32

L1 ANSWER 9 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN

CN α S2-Casein (cattle protein moiety reduced) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN α S2-Casein (ox protein moiety reduced)

SQL 207

SEQ 1 KNTMEHVSSS EESIISQETY KOEKNMAINP SKENLCSTFC KEVVRNANEE

51 EYSIGSSSEE SAEVATEEVK ITVDDKHYQK ALNEINEFYQ KFPQYLQYLY

101 QGPVILNPWD QVKRNAVPIT PTLNREQLST SEENSKKTV D MESTEVFTKK

151 TKLTEEEKNR LNFLKKISQR YQKFALPOYL KTVYQHOKAM KPWIQPKTKV

=====

201 IPYVRYL

HITS AT: 174-181

L1 ANSWER 10 OF 10 REGISTRY COPYRIGHT 2006 ACS on STN

CN L-Lysine, L-phenylalanyl-L-alanyl-L-leucyl-L-prolyl-L-glutaminyL-L-tyrosyl-L-leucyl- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN L-Lysine, N2-[N-[N-[N2-[1-[N-(N-L-phenylalanyl-L-alanyl)-L-leucyl]-L-prolyl]-L-glutaminyL]-L-tyrosyl]-L-leucyl]-

CN Lysine, N2-[N-[N-[N2-[1-[N-[N-(3-phenyl-L-alanyl)-L-alanyl]-L-leucyl]-L-prolyl]-L-glutaminyL]-L-tyrosyl]-L-leucyl]-, L- (8CI)

OTHER NAMES:

CN 3: PN: WO2005052563 SEQID: 15 unclaimed sequence

CN 5: PN: EP1374885 SEQID: 5 claimed protein

SQL 8

SEQ 1 FALPQYLK

=====

HITS AT: 1-8

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FULL ESTIMATED COST

94.69

94.90

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=> s L1

L2 13 L1

=> d L2 1-13 ibib abs

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:493749 CAPLUS

DOCUMENT NUMBER: 143:40600

TITLE: Peptide derivatization for enhancing protein identification by mass spectrometry

INVENTOR(S): Reilly, James P.; Beardsley, Richard L.

PATENT ASSIGNEE(S): Indiana University Research and Technology Corporation, USA

SOURCE: PCT Int. Appl., 53 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005052563	A1	20050609	WO 2004-US38932	20041119
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			

PRIORITY APPLN. INFO.: US 2003-523643P P 20031120

AB One aspect of the present invention is directed to a dual labeling strategy that enhances the mass spectrometry anal. of peptides. In one embodiment a de novo sequencing method is provided that utilizes both guanidination of lysine residues in conjunction with amidination of the N-termini of peptides to be analyzed by mass spectrometry. This approach facilitates identification of N- and C-terminal fragment ions.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:28061 CAPLUS

DOCUMENT NUMBER: 143:265786

TITLE: Isolation and characterisation of antibacterial peptides derived from the f(164-207) region of bovine α S2-casein

AUTHOR(S): McCann, K. B.; Shiell, B. J.; Michalski, W. P.; Lee, A.; Wan, J.; Roginski, H.; Coventry, M. J.

CORPORATE SOURCE: Institute of Land and Food Resources, Gilbert Chandler College, The University of Melbourne, Werribee, VIC. 3030, Australia

SOURCE: International Dairy Journal (2005), 15(2), 133-143

CODEN: IDAJE6; ISSN: 0958-6946

PUBLISHER: Elsevier B.V

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A chymosin digest of sodium caseinate, which showed antibacterial activity against *Listeria innocua*, was fractionated using reverse phase high

performance liquid chromatog. and the purified antibacterial peptides were characterized by mass spectrometry, N-terminal amino acid sequencing and comparison to peptide masses of theor. enzymic digests of milk proteins. Five antibacterial peptides, Cr1, Cr3, Cr4, Cr5 and Cr7 corresponding to amino acid residues 181-207, 180-207, 175-207, 164-207 and 172-207 of bovine α S2-casein, resp., were isolated. The minimal inhibitory concentration of peptides Cr1, Cr4 and Cr5 was determined against a range of

Gram-pos.

and Gram-neg. bacteria and showed similar activities to those of the bacteriocin peptide, nisin and the antibacterial peptide, lactoferricin B against certain Gram-pos. bacteria. A partially purified chymosin digest of sodium caseinate (CrMIX) was prepared and observed to be heat stable for up to 15 min on exposure to 121°. Although CrMIX showed bactericidal activity against Salmonella typhimurium in 0.1% (w/v) peptone medium, no antibacterial activity was observed when tested in skim milk at the same concentration

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:546918 CAPLUS

DOCUMENT NUMBER: 141:83633

TITLE: Rice nucleic acid molecules and encoded proteins and their uses for plant improvement

INVENTOR(S): La Rosa, Thomas J.; Kovalic, David K.; Zhou, Yihua; Cao, Yongwei; Wu, Wei; Boukharov, Andrey A.; Barbazuk, Brad W.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 14 pp., Cont.-in-part of U.S. Ser. No. 837,604.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 27

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004123343	A1	20040624	US 2003-437963	20030514
US 2004123343	A1	20040624	US 2003-437963	20030514
PRIORITY APPLN. INFO.:			US 2000-197872P	P 20000419
			US 2001-837604	A2 20010418
			US 2003-437963	A 20030514

AB The present invention provides 102,483 cDNA sequences and their encoded protein sequences from rice (*Oryza sativa*). Bioinformatic anal. identified putative functions and uses for the nucleic acids/polypeptides. The disclosed polynucleotides and polypeptides find use in production of transgenic plants to produce plants having improved properties. [This abstract record is one of forty-one records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:5123 CAPLUS

DOCUMENT NUMBER: 140:71022

TITLE: Casein α S2 peptides with angiotensin

I-converting enzyme (ACE)-inhibiting activity for the preparation of medicaments and foodstuffs for the treatment of hypertension

INVENTOR(S): Tauzin, Jerome; Miclo, Laurent; Lefranc, Catherine; Boudier, Jean-Francois; Gaillard, Jean-Luc

PATENT ASSIGNEE(S): Ingredia, Fr.

SOURCE: Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1374885	A1	20040102	EP 2003-370025	20030624
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2841473	A1	20040102	FR 2002-8036	20020627
FR 2841473	B1	20040917		
CA 2490282	AA	20040108	CA 2003-2490282	20030624
WO 2004002509	A2	20040108	WO 2003-FR1945	20030624
WO 2004002509	A3	20040415		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003255691	A1	20040119	AU 2003-255691	20030624
BR 2003012214	A	20050412	BR 2003-12214	20030624
JP 2005530851	T2	20051013	JP 2004-516859	20030624
US 2006234942	A1	20061019	US 2005-519164	20050830
PRIORITY APPLN. INFO.:			FR 2002-8036	A 20020627
			WO 2003-FR1945	W 20030624

AB The invention discloses peptides derived from casein α S2 with ACE-inhibiting activity for the prevention and treatment of hypertension. The peptides may be included in pharmaceutical compns. and foodstuffs.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:839514 CAPLUS

DOCUMENT NUMBER: 138:362404

TITLE: Angiotensin-I-converting enzyme inhibitory peptides from tryptic hydrolysate of bovine α S2-casein

AUTHOR(S): Tauzin, Jerome; Miclo, Laurent; Gaillard, Jean-Luc

CORPORATE SOURCE: Laboratoire des BioSciences de l'Aliment, Faculte des Sciences et Techniques, UC 885 INRA, Universite Henri Poincare Nancy 1, Vandoeuvre-le` s-Nancy, 54506, Fr.

SOURCE: FEBS Letters (2002), 531(2), 369-374

CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Angiotensin-I-converting enzyme (ACE) inhibitory activity of a tryptic digest of bovine α S2-casein (α S2-CN) was extensively investigated. Forty-three peptide peaks were isolated and tested. Seven casokinins (i.e. CN-derived ACE inhibitory peptides) were identified and their IC50 values were determined. Four peptides exhibited an IC50 value lower than 20 μ M. Peptides α S2-CN (f174-181) and α S2-CN (f174-179) had IC50 values of 4 μ M. Surprisingly, deletion of the C-terminal dipeptide of two of these casokinins did not significantly alter their inhibitory activity.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:771931 CAPLUS
DOCUMENT NUMBER: 138:121522
TITLE: Identification of Sequential IgE-Binding Epitopes on Bovine α s2-Casein in Cow's Milk Allergic Patients
AUTHOR(S): Busse, Paula J.; Jaervinen, Kirsi-Marjut; Vila, Leticia; Beyer, Kirsten; Sampson, Hugh A.
CORPORATE SOURCE: Jaffe Institute for Food Allergy, Division of Allergy and Immunology, Department of Pediatrics, The Mount Sinai School of Medicine, New York, NY, 10029-6574, USA
SOURCE: International Archives of Allergy and Immunology (2002), 129(1), 93-96
CODEN: IAAIEG; ISSN: 1018-2438
PUBLISHER: S. Karger AG
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Background: Caseins are the major allergens responsible for cow's milk allergy (CMA). The authors have previously identified the IgE-binding epitopes of the major cow's milk (CM) proteins except for α s2-casein. Methods: Overlapping decapeptides representing the entire length of α s2-casein were synthesized on a cellulose-derivatized membrane. Sera from 13 CM-allergic children, 4-15 yr of age, with a median level of CM-specific IgE >100 kU/l (range 33.7 to > 100 kU/l) were used to identify IgE-binding epitopes. Results: Four major and six minor sequential IgE-binding regions were identified on α s2-casein. The first major region is located in the middle of the protein at amino acids (AA) 83-100, and the other three major regions are located in the carboxy terminal portion of the protein at AA 143-158, 157-172 and 165-188. The minor IgE-binding regions were identified at AA 31-44, 43-56, 93-106, 105-114, 117-128, and 191-200. Conclusion: the authors identified 10 sequential IgE-binding regions on α s2-casein and performed the first crucial step in the development of immunotherapeutic interventions for CMA.
REFERENCE COUNT: 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:758248 CAPLUS
DOCUMENT NUMBER: 138:90063
TITLE: The development of electro-membrane filtration for the isolation of bioactive peptides: the effect of membrane selection and operating parameters on the transport rate
AUTHOR(S): Bargeman, G.; Koops, G.-H.; Houwing, J.; Breebaart, I.; van der Horst, H. C.; Wessling, M.
CORPORATE SOURCE: NIZO Food Research, Ede, 6710 BA, Neth.
SOURCE: Desalination (2002), 149(1-3), 369-374
CODEN: DSLNAH; ISSN: 0011-9164
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The ability to produce functional food ingredients from natural sources becomes increasingly attractive to the food industry. Antimicrobial (bioactive) ingredients, like peptides and proteins, can be isolated from hydrolyzates with membrane filtration and/or chromatog. Electro-membrane filtration (EMF) is an alternative for the isolation of these usually strongly charged components. It is believed to be more selective than membrane filtration and less costly than chromatog. The isolation of bioactive peptides from a hydrolyzate of α s2-casein, a protein originating from milk, was studied as a model separation for the development of EMF. This separation can be used as an example application for the isolation of other charged components from complex feedstocks in several industries. After 4 h EMF the product consisted for 100% of proven or anticipated

charged bioactive components. Diffusion and convection were negligible in relation to electrophoretic transport, since only charged components were recovered in the permeate product. The most important peptide (26% on total protein, starting from 7.5% in the feed) was α s2-casein (183-207), a very potent peptide against Gram pos. and Gram neg. microorganisms. The transport rate of α s2-casein (183-207) was reduced strongly when a polysulfone membrane with a mol. weight cut-off below 20 kDa was used. The amount of α s2-casein (183-207) transported increased practically linearly with the concentration and the applied p.d. The use of desalinated feeds to further increase the elec. field strength in the feed compartment resulted in higher transport rates, but this increase was lower than expected probably due to the lower electrophoretic mobility. An average transport rate of 2.5 and 4 g/m².h at maximum was achieved

during 4 h EMF using GR60PP (25 kDa) and GR41PP (100 kDa) membranes, resp.
REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 8 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:37476 CAPLUS

DOCUMENT NUMBER: 136:244141

TITLE: Three oligopeptide-binding proteins are involved in the oligopeptide transport of *Streptococcus thermophilus*

AUTHOR(S): Garault, Peggy; Le Bars, Dominique; Besset, Colette; Monnet, Veronique

CORPORATE SOURCE: Unite de Biochimie et Structure des Proteines, Institut National de la Recherche Agronomique, Jouy en Josas, 78352, Fr.

SOURCE: Journal of Biological Chemistry (2002), 277(1), 32-39
CODEN: JBCHA3; ISSN: 0021-9258

PUBLISHER: American Society for Biochemistry and Molecular Biology

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The functions necessary for bacterial growth strongly depend on the features of the bacteria and the components of the growth media. Our objective was to identify the functions essential to the optimum growth of *Streptococcus thermophilus* in milk. Using random insertional mutagenesis on a *S. thermophilus* strain chosen for its ability to grow rapidly in milk, we obtained several mutants incapable of rapid growth in milk. We isolated and characterized one of these mutants in which an *amiA1* gene encoding an oligopeptide-binding protein (OBP) was interrupted. This gene was a part of an operon containing all the components of an ATP binding cassette transporter. Three highly homologous *amiA* genes encoding OBPs work with the same components of the ATP transport system. Their simultaneous inactivation led to a drastic diminution in the growth rate in milk and the absence of growth in chemical defined medium containing peptides

as the nitrogen source. We constructed single and multiple neg. mutants for *AmiAs* and cell wall proteinase (PrtS), the only proteinase capable of hydrolyzing casein oligopeptides outside the cell. Growth expts. in chemical defined medium containing peptides indicated that *AmiA1*, *AmiA2*, and *AmiA3* exhibited overlapping substrate specificities, and that the whole system allows the transport of peptides containing from 3 to 23 residues.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:452327 CAPLUS

DOCUMENT NUMBER: 125:123676

TITLE: Purification of antibacterial peptides from bovine milk

INVENTOR(S): Zucht, Hans-Dieter; Forssmann, Wolf-Georg; Raida,

PATENT ASSIGNEE(S): Manfred; Adermann, Knut
 SOURCE: Germany
 Ger. Offen., 17 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4444753	A1	19960620	DE 1994-4444753	19941215
DE 4444753	C2	19980806		
WO 9735877	A1	19971002	WO 1996-EP1296	19960325
W: AL, AM, AU, BB, BG, BR, CA, CN, CZ, EE, GE, HU, IS, JP, KG, KP, KR, LK, LR, LT, LV, MD, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9653342	A1	19971017	AU 1996-53342	19960325
EP 889902	A1	19990113	EP 1996-910013	19960325
EP 889902	B1	20010620		
R: AT, CH, DE, ES, FR, GB, IT, LI				
JP 2000507941	T2	20000627	JP 1997-533956	19960325
AT 202363	E	20010715	AT 1996-910013	19960325
ES 2159021	T3	20010916	ES 1996-910013	19960325
US 2002025928	A1	20020228	US 1998-155203	19980924
US 6579849	B2	20030617		

PRIORITY APPLN. INFO.: DE 1994-4444753 19941215
 WO 1996-EP1296 W 19960325

AB Fragments of α s2-casein, designated as casobiotics, are present in large amts. in bovine milk and show antibacterial activity against Escherichia coli. Thus, milk was acidified, heated, treated with CaCl₂, and centrifuged, and the whey was subjected to cation-exchange chromatog. and 3 cycles of HPLC to isolate α s2-casein(165-203). The structure and biol. activity of this peptide were confirmed by synthesis. A related peptide, α s2-casein(166-203), was also prepared and showed similar biol. activity.

L2 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:847173 CAPLUS

DOCUMENT NUMBER: 123:333116

TITLE: Casocidin-I: a casein- α s2 derived peptide
 exhibits antibacterial activity

AUTHOR(S): Zucht, Hans-Dieter; Raida, Manfred; Adermann, Knut;
 Maegert, Hans-Juergen; Forssmann, Wolf-Georg

CORPORATE SOURCE: Niedersaechsisches Institut fuer Peptid-Forschung
 (IPF), Feodor-Lynen-Strasse 31, Hannover, D-30625,
 Germany

SOURCE: FEBS Letters (1995), 372(2,3), 185-8
 CODEN: FEBLAL; ISSN: 0014-5793

PUBLISHER: Elsevier

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Here we report the isolation and characterization of an antibacterial peptide from bovine milk inhibiting the growth of Escherichia coli and Staphylococcus carnosus. The primary structure of the peptide was revealed as a 39-amino-acid-containing fragment of bovine α s2-casein (position 165-203) by means of Edman amino acid sequencing and mass spectrometry. Since human milk does not contain any casein- α s2, these findings could explain the different influence of human and bovine milk on the gastrointestinal flora of the suckling.

L2 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1989:611264 CAPLUS

DOCUMENT NUMBER: 111:211264

TITLE: Application of reversed-phase high-performance liquid chromatography to the separation of peptides from phosphorylated and dephosphorylated casein hydrolyzates

AUTHOR(S): Lemieux, Lise; Amiot, Jean

CORPORATE SOURCE: Dep. Sci. Technol. Aliments, STELA, Sainte-Foy, QC, GlK 7P4, Can.

SOURCE: Journal of Chromatography (1989), 473(1), 189-206

CODEN: JOCRAM; ISSN: 0021-9673

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Peptides from phosphorylated and dephosphorylated casein hydrolyzates were fractionated on a TSK G2000SW size-exclusion column. The fractionated peptides were separated by reversed-phase HPLC on a C18 column using aqueous trifluoroacetic acid as the mobile phase and acetonitrile as the mobile phase modifier in the linear gradient elution system. The separation of the dephosphorylated and phosphorylated hydrolyzates gave 213 and 187 peptides, resp., of which 116 and 99, resp., were reported. A study of their composition and retention times verified that the peptide separation mechanism

includes ionic interactions, H bonding and peptide characteristics, in addition to overall peptide hydrophobicity.

L2 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1977:417534 CAPLUS

DOCUMENT NUMBER: 87:17534

TITLE: Complete amino acid sequence of bovine α S2-casein

AUTHOR(S): Brignon, Ghislaine; Ribadeau Dumas, Bruno; Mercier, Jean Claude; Pelissier, Jean Pierre; Das, B. C.

CORPORATE SOURCE: Lab. Rech. Proteines, Inst. Natl. Rech. Agron., Jouy-en-Josas, Fr.

SOURCE: FEBS Letters (1977), 76(2), 274-9

CODEN: FEBLAL; ISSN: 0014-5793

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The complete primary amino acid sequence of bovine α S2-casein was determined by standard methods. In addition, the possible sites of phosphorylation on

this protein were localized. This protein contains 207 amino acid residues, including 2 cysteines, and 10-13 phosphate groups and has a calculated mol. weight of 25,150-15,390 daltons.

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1970:519353 CAPLUS

DOCUMENT NUMBER: 73:119353

TITLE: Isolation of bitter peptides from tryptic hydrolyzate of casein and their chemical structure

AUTHOR(S): Matoba, Teruyoshi; Hayashi, Rikimaru; Hata, Tadao

CORPORATE SOURCE: Res. Inst. Food Sci., Kyoto Univ., Kyoto, Japan

SOURCE: Agricultural and Biological Chemistry (1970), 34(8), 1235-43

CODEN: ABCHA6; ISSN: 0002-1369

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Three bitter peptides were isolated from the tryptic hydrolyzate of casein by extraction with BuOH, precipitation at pH 5.4, gel filtration with Sephadex G-25,

chromatog. on Dowex 50, and paper chromatog. The primary structures of the peptides were: Gly-Pro-Phe-Pro-Val-Ileu, Phe-Phe-Val-Ala-Pro-Phe-Pro-Glu-Val-Phe-Gly-Lys, and Phe-Ala-Leu-Pro-Gln-Tyr-Leu-Lys.